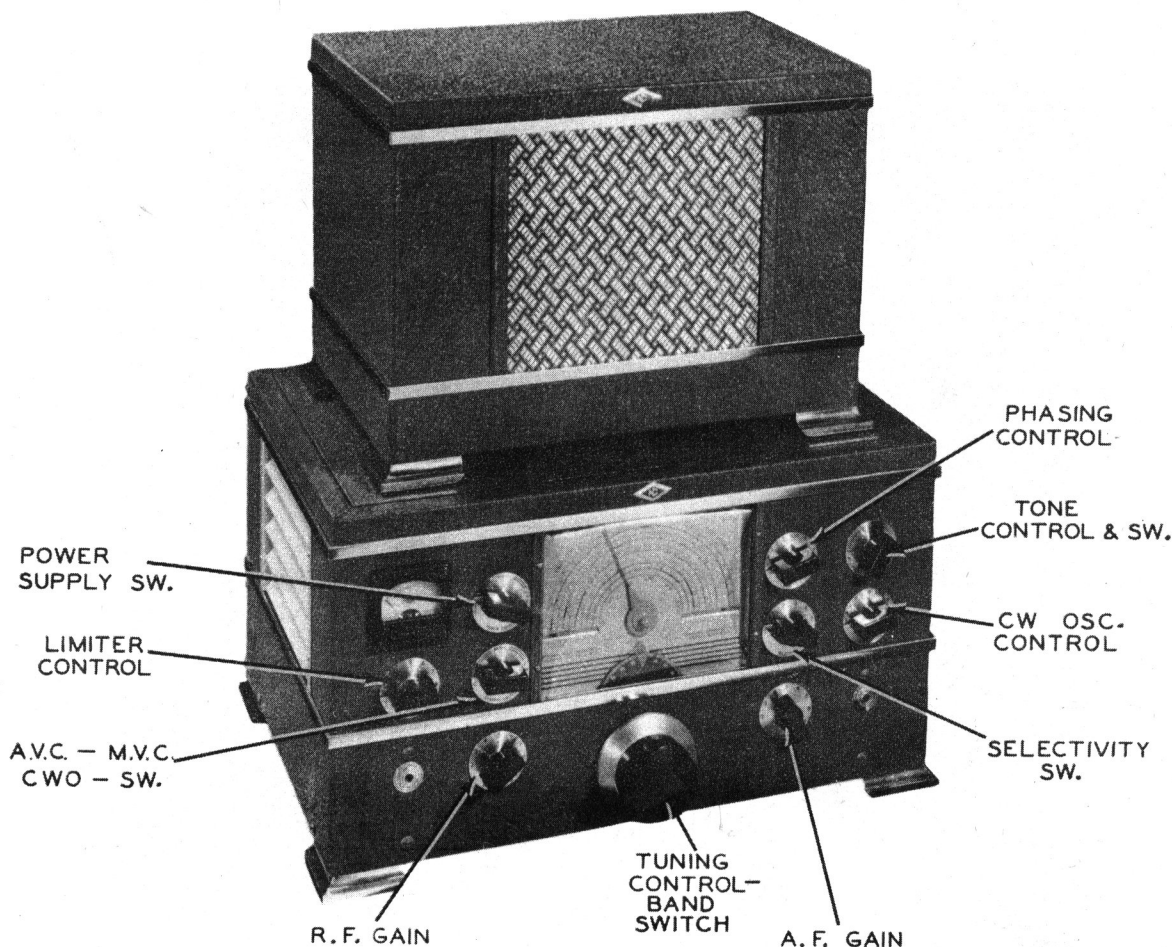


NATIONAL MODELS  
NC-2-4ODR, NC-2-4ODT



NATIONAL MODEL NC-2-4ODR

TRADE NAME	National, Model NC-2-4ODR, NC-2-4ODT		
MANUFACTURER	National Co., Inc., 61 Sherman St., Malden, Mass.		
TYPE SET	AC Operated Communication Six Band Superheterodyne Receiver		
TUBES (TWELVE)	Types, 6SK7 RF Amp., 6K8 Mixer, 6J5 Osc., 6K7 1st IF Amp., 6SK7 2nd IF Amp., 6SL7GT 2nd Det.-Limiter, 6SJ7 CW-Osc., 6V6GT AVC, 6SN7GT AF-Phase Inv., (2) 6V6GT Power Output, 5Y3GT Rectifier.		
POWER SUPPLY	110-120 Volts or 220-240 Volts AC	RATING	.75 Amp. @ 117 Volts AC
TUNING RANGE	480-1040KC, 920-2100KC, 1.68-4.05MC, 3.4-4.05MC, 3.4-7.4MC, 6.9-7.35MC, 6.65-14.6MC, 13.8-14.46MC, 13.9-31MC, 26.9-30.05MC.		

NATIONAL MODELS  
NC-2-4ODR, NC-2-4ODT

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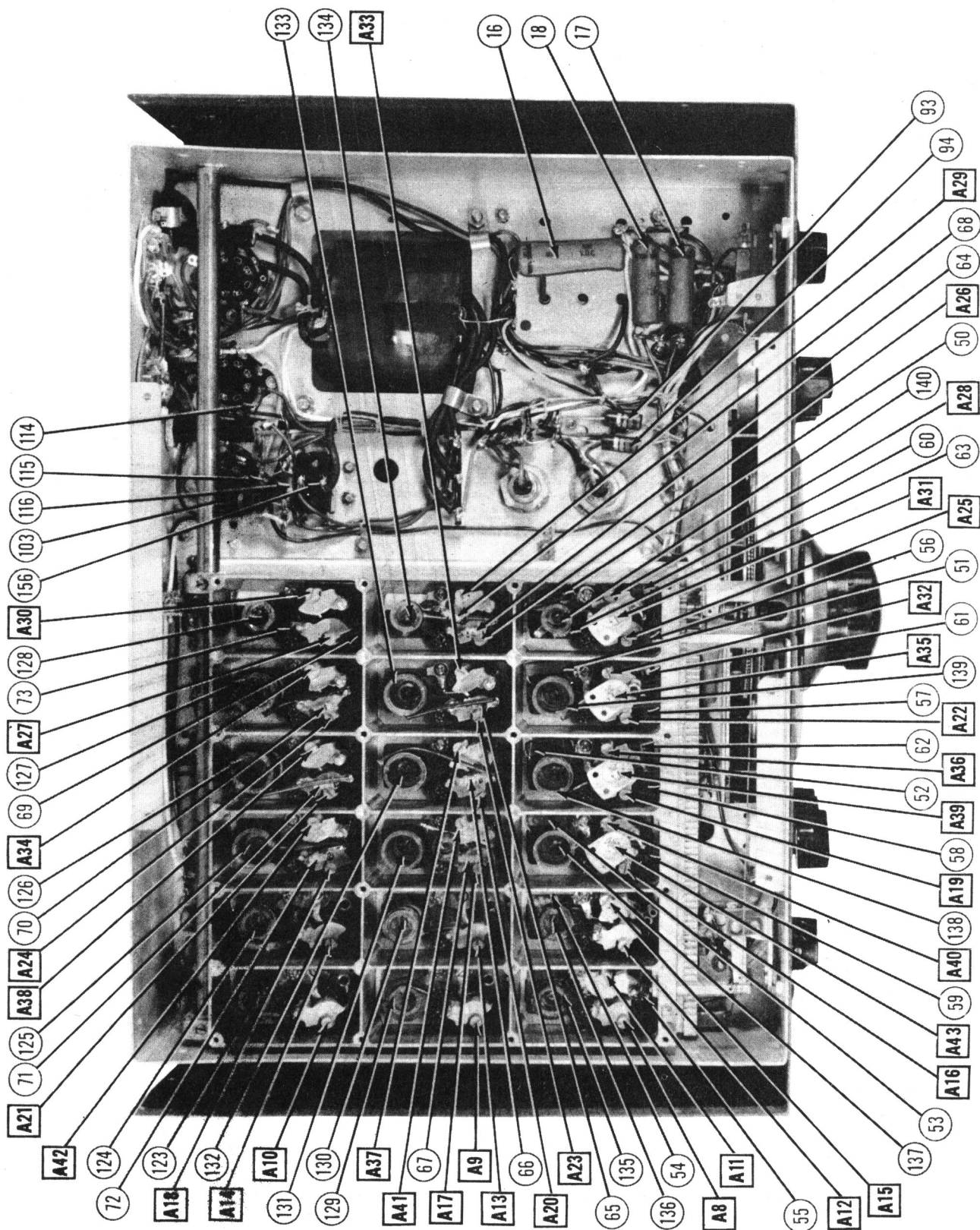
"The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed."  
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DATE 5/48-#4811-16

SET #41-FOLDER #16







PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	INSTALLATION NOTES
		NATIONAL PART No.	STANDARD REPLACEMENT		
1	RF Amp.	6X8	6SK7	8N	
2	Mixer	6X8	6X8	8K	
3	1st IF	6X5	6X5	6Q	
4	2nd IF	6X7	6X7	7R	
5	2nd Det.-Lim	6SK7	6SK7	8N	
6	Ch. Osc.	6SL7GT	6SL7GT	8BD	
7	AF Phase Inv.	6SU7	6SU7	7AC	
8	AF Phase Inv.	6SN7GT	6SN7GT	8BD	
9	Power Output	6V6GT	6V6GT	7AC	
10	Rectifier	5Y3GT	5Y3GT	5T	

Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING	REPLACEMENT DATA			IDENTIFICATION CODES AND INSTALLATION NOTES
		NATIONAL PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	
13A	8 CAP.	61-475-8-8	KR588A	EL-1	Filter-Red
13B	8			MK-8	Filter-Red-White
14	40	GL450-40	KR530	EL-42	Bias Filter
15	10	PR850-10	BR105	TA-510	Inverter Cathode Bypass
16	1	684-1	D76P1	TC-1	Power Supply Bypass
17	1	684-1	ST-6-1	TC-1	Audio Coupling
18	1	484-1	D74P1	TC-1	"
19	1	484-1	ST-4-1	TC-1	"
20	1	484-1	ST-4-1	TC-1	Bias Network
21	1	484-1	D74P1	TC-1	AVC Filter
22	1	484-1	ST-4-1	TC-1	Ch. Osc.
23	1	484-1	D74P1	TC-1	Screen Bypass
24	1	484-1	ST-4-1	TC-1	Audio Coupling
25	1	684-01	D76S1	TC-11	Tone Coupling
26	1	684-01	SDH-2-1M	TC-10	Audio Coupling
27	1	684-01	ST-6-01	TC-11	Test Plate Bypass
28	1	684-01	D76P1	TC-1	2nd IF Plate Decoupling
29	1	484-1	D74P1	TC-1	Screen Bypass
30	1	484-1	ST-4-1	TC-1	2nd IF Cathode Bypass
31	1	684-01	ST-6-01	TC-11	AVC Filter
32	1	684-01	D76P1	TC-1	1st IF Plate Decoupling
33	1	484-1	ST-4-1	TC-1	1st IF Cathode Bypass
34	1	684-01	D76S1	TC-11	AVC Filter
35	1	484-1	ST-4-1	TC-1	Conv. Plate Decoupling
36	1	484-1	D74P1	TC-1	Conv. Screen Bypass
37	1	484-1	ST-4-1	TC-1	Conv. Cathode Bypass
38	1	484-1	D74P1	TC-1	RF Plate Decoupling
39	1	484-1	ST-4-1	TC-1	Screen Bypass
40	1	484-1	D74P1	TC-1	RF Cathode Bypass
41	1	484-1	ST-4-1	TC-1	RF Bypass
42	1000	1463-101	M4 5-21	1M-21	AVC Filter
43	250	1463-00025	M0 5-325	1M-235	AVC Filter
44	1000	1467-101	M4 5-21	1M-21	AVC Filter
45	250	1467-00025	M0 5-325	1M-235	AVC Filter
46	1000	1468-101	M4 5-21	1M-21	Tone Comp.
47	250	1468-00025	M0 5-325	1M-235	Osc. Coupling
48	250	1468-00025	M0 5-325	1M-235	Osc. Coupling
49	5000	1467-00025	M4 5-25	1M-25	AVC Filter
50	750	1467-00025	M4 5-25	1M-25	AVC Filter
51	3000	500			"A" Band Osc. Padder
52	1700	500			"B" " " " "
53	900	500			"C" " " " "
54	1500	500			"D" " " " "
55	250	500			"E" " " " "
56	250	500			"F" " " " "
57	12	500			"G" " " " "
58	18	500			"H" " " " "
59	35	500			"I" " " " "
60	10	500			"J" " " " "
61	10	500			"K" " " " "
62	10	500			"L" " " " "
63	29	500			"M" " " " "
64	38	500			"N" " " " "

PARTS LIST AND DESCRIPTIONS (Continued)

FILTER CHOKE

ITEM No.	TOTAL DIRECT CURRENT	RATINGS	REPLACEMENT DATA			INSTALLATION NOTES
			INDUCTANCE (0.000-0)	NATIONAL PART No.	STANCO PART No.	
118	.093A	D.C. RESISTANCE 280Ω	12.5 H		C-2305*	*Drill new mounting holes.
119	.093A	280Ω	12.5 H		C-2305*	*Drill new mounting holes.

TRANSFORMER (OUTPUT)

ITEM No.	IMPEDANCE	RATING	REPLACEMENT DATA			INSTALLATION NOTES
			NATIONAL PART No.	STANCO PART No.	THORDARN PART No.	
120	9600Ω	7.5Ω 480Ω CT		A-3831	T-22856	A-2901

SPEAKER

ITEM No.	RATINGS	REPLACEMENT DATA			INSTALLATION NOTES
		NATIONAL PART No.	JENSEN PART No.	QUAM PART No.	
121	FIELD PM		ST-120	1046	
122	CONE DIA. 9-3/4"		Mod. P10-S		

R F COILS

ITEM No.	USE	BAND	DC RES.		REPLACEMENT DATA	INSTALLATION NOTES
			PRI.	SEC.	NATIONAL PART No.	
123	Ant. Coil	F	7Ω	3.4Ω		
124	"	E	1.6Ω	.7Ω		
125	"	D	.3Ω	.3Ω		
126	"	C	.3Ω	.2Ω		
127	"	B	.2Ω	.2Ω		
128	"	A	.1Ω	.1Ω		
129	RF Coil	F	32.2Ω	2.9Ω		
130	"	E	14.4Ω	1.4Ω		
131	"	D	7.7Ω	.3Ω		
132	"	C	2.9Ω	.2Ω		
133	"	B	2.9Ω	.2Ω		
134	"	A	.2Ω	.1Ω		
135	Osc. Coil	F	1.2Ω	1.4Ω		
136	"	E	.7Ω	1.3Ω		
137	"	D	.3Ω	.2Ω		
138	"	C	.3Ω	.2Ω		
139	"	B	.6Ω	1.2Ω		
140	"	A	12.3Ω	9.5Ω		
141	Input IF		7.8Ω	7.8Ω		
142	Inter. IF		7.8Ω	7.8Ω		
143	Output IF		7.8Ω	7.8Ω		
144	Osc. Trans		1.2Ω	1.2Ω		

DIAL LIGHT

ITEM No.	BASE TYPE	VOLTS	AMPS.	BEAD COLOR	REPLACEMENT DATA		INSTALLATION NOTES
					NATIONAL PART No.	THORDARN PART No.	
145	Screw	6-8	0.15	Brown			Type 40
146-147	Bayonet	6-8	0.15	"		No. 47	Type 47

MISCELLANEOUS

ITEM No.	PART NAME	NATIONAL PART No.	NOTES
148	Switch		On-Off
149	"		B* On-Off
150	"		AVC-MVC-CMO
151	"		Selectivity
152	"		Band
153	Fuse		2 Amp.
154	"		1 Amp.
155	3 Gang Var. Cap.		(31-280MPP) each section
156	Switch		Line voltage (110-120V to 220-240V)



## CHASSIS—TOP VIEW

"B"	"	"	"	"	"
"C"	"	"	"	"	"
"D"	"	"	"	"	"
"A"	"	"	"	"	"
"A"	"	"	"	"	"
"B"	"	"	"	"	"
"C"	"	"	"	"	"
"D"	"	"	"	"	"
"A"	"	"	"	"	"

## CONTROLS

ITEM No.	RATING		REPLACEMENT DATA			INSTALLATION NOTES
	RESIST-ANCE	WATTS	NATIONAL PART No.	IRC PART No.	CLAROSTAT PART No.	
74A	500KΩ	½				
B	Shaft					
75	10KΩ	1 ½				
76	10KΩ	1 ½				
77A	500KΩ	½				
B	Shaft					
C	Switch					

## RESISTORS

ITEM No.	RATING		REPLACEMENT DATA		IRC PART No.	IRC PART No.	IDENTIFICATION CODES
	RESISTANCE	WATTS	NATIONAL	IRC			
78	1.5 Meg.			BTS-1.5 Meg.		Br.-Grn.-Grn. AVC Network	
79	470K			BTS-470K		Yl.-Vi.-Yl.	
80	470K			BTS-470		Yl.-Vi.-Br. AVC Cathode	
81	47K			BTS-47K		Yl.-Vi.-Or. Voltage Dropping	
82	220K			BW-2-220		Red-Red-Br. Converter Cathode	
83	47K			BTS-47K		Yl.-Vi.-Or. Converter Screen Dropping	
84	100K			BTS-100K		Br.-Blk.-Yl. Bleeder	
85	2200K			BTS-2200		Red-Red-Red Decoupling	
86	47K			BTS-47K		Yl.-Vi.-Or. Voltage Dropping	
87	47K			BTS-47K		Yl.-Vi.-Or. Converter Grid	
88	22K			BTS-22K		Red-Red-Or. AVC Network	
89	1500K			BTS-2200		Br.-Grn.-Red 1st IF Cathode-See Note	
90	2200K			BTS-470K		Red-Red-Red 1st IF Decoupling	
91	470K			BTS-470K		Yl.-Vi.-Yl. AVC Network	
92	100K			BT-2-22K		Br.-Blk.-Red 2nd IF Cathode-See Note	
93	22K			BTS-2-22K		Red-Red-Or. Bleeder	
94	22K			BTS-1000		Red-Red-Or. Voltage Dropping	
95	100K			BTS-1000		Br.-Blk.-Red 2nd IF Plate Decoupling	
96	2200K			BTS-2200		Red-Red-Red detector Plate Decoupling	
97	4700K			BTS-4700		Yl.-Vi.-Red detector Cathode	
98	22K			BTS-22K		Red-Red-Or. detector Output Load	
99	100K			BTS-100K		Br.-Blk.-Yl. Limiter Cathode	
100	47K			BTS-47K		Yl.-Vi.-Or. Limiter Grid	
101	220K			BTS-220K		Red-Red-Yl. BFO Plate Load	
102	100K			BTS-100K		Br.-Blk.-Yl. BFO Screen Dropping	
103	220K			BW-2-220		Red-Red-Br. Output Cathode	
104	100K			BTS-100K		Br.-Blk.-Yl. Bleeder	
105	470K			BTS-470K		Yl.-Vi.-Yl. AVC Network	
106	15K			BTS-15K		Br.-Grn.-Or.	
107	2700K			BT-2-2700		Red-Vi.-Red Bias Network	
108	820K			Gray-Red-Br.		Gray-Red-Br.	
109	1 Meg.			BTS-1 Meg.		Yl.-Vi.-Grn.	
110	47K			BTS-47K		Yl.-Vi.-Or. AF Plate Load	
111	100K			BTS-100K		Br.-Blk.-Red AF Cathode	
112	47K			BTS-47K		Yl.-Vi.-Or. Phase Inverter	
113	470K			BTS-470K		Yl.-Vi.-Yl. Phase Inverter Grid	
114	220K			BTS-220K		Red-Red-Yl. Output Grid	
115	220K			BTS-220K		Red-Red-Yl.	
116	220K			BTS-220K		Red-Red-Yl.	

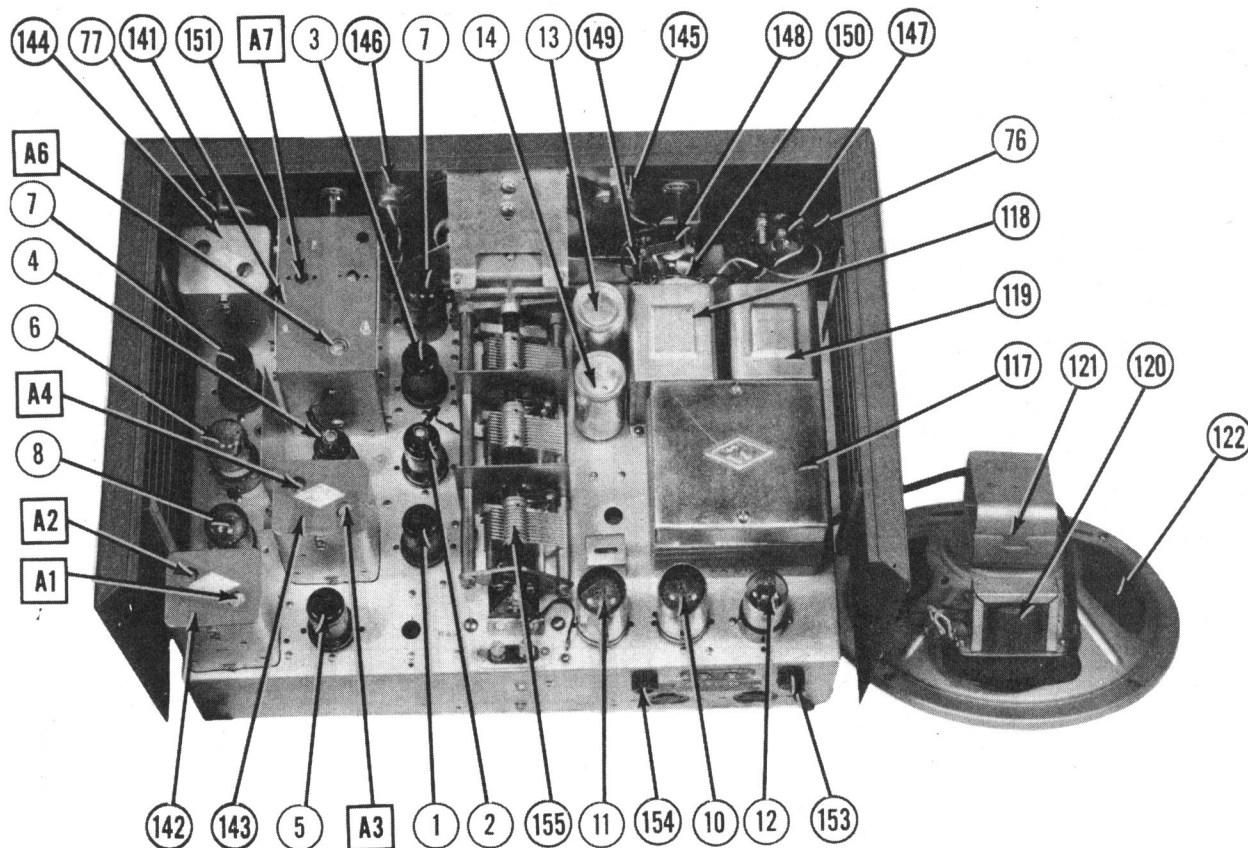
## TRANSFORMER (POWER)

ITEM No.	RATING				REPLACEMENT DATA			
	PRI	SEC. 1	SEC. 2	SEC. 3	NATIONAL PART No.	STANCOR PART No.	THORDARSON PART No.	MERIT PART No.
117	117V AC 800V CH 2.0A	③ .75A	③ .063A	④ 4.7A		P-61555		

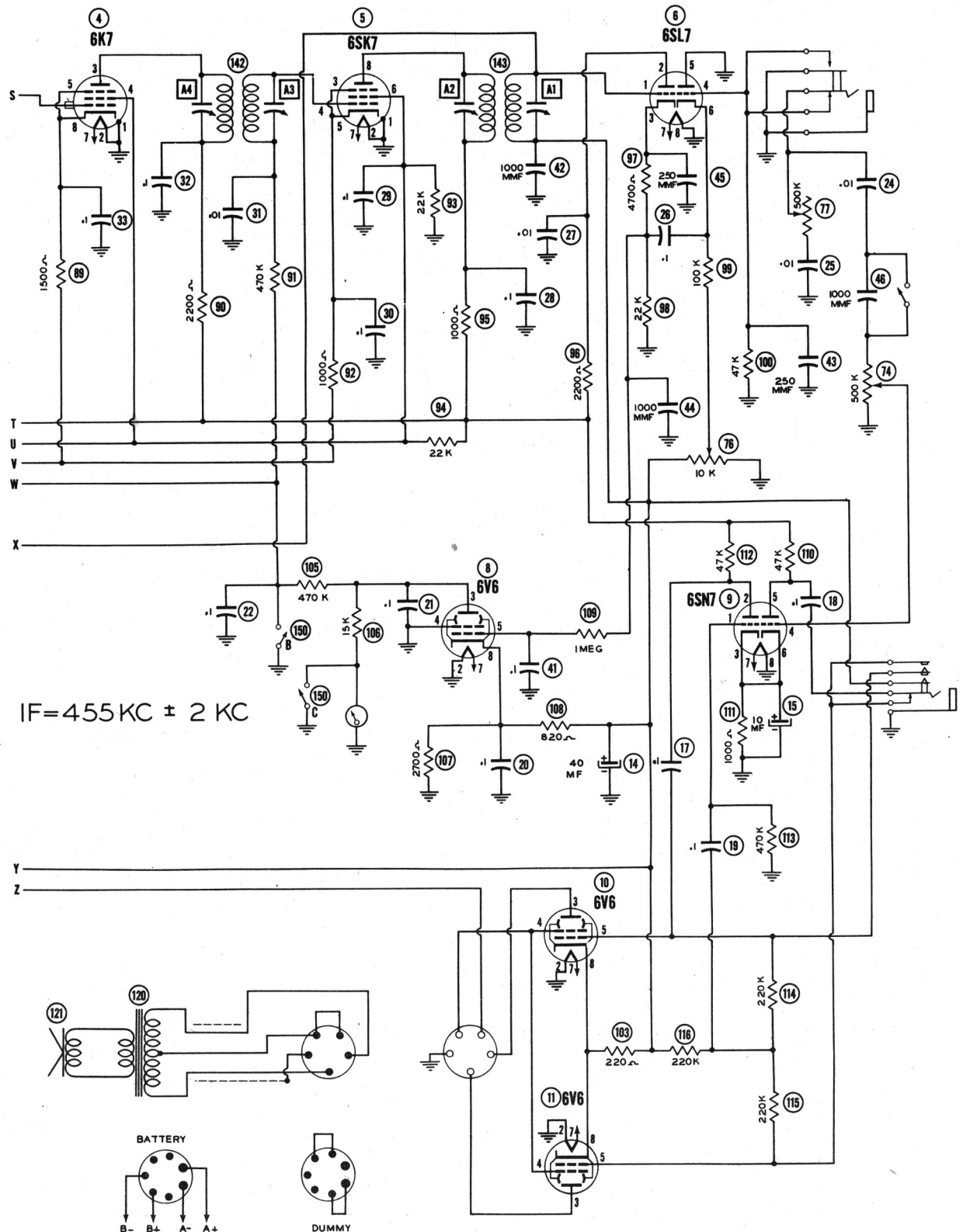
#This replacement for 117V AC only.

	1	2	BTS-220K	Red-Red-Y.
116	220K $\Omega$			

This resistor is selected individually for each receiver and should be replaced according







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# VOLTAGE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Cap
1	6SK7	OV.	64VAC	2.2VDC	OV.	2.2VDC	60VDC	OV.	200VDC	-
2	6K8	OV.	OV.	197VDC	47VDC	-8VDC§	OV.	6.4VAC	.5VDC	OV.
3	6J5	OV.	OV.	72VDC	117VDC	-8VDC§	OV.	6.4VAC	OV.	-
4	6K7	OV.	OV.	190VDC	60VDC	3.2VDC	OV.	6.4VAC	3.2VDC	OV.
5	6SK7	OV.	OV.	3VDC	OV.	3VDC	60VDC	6.4VAC	190VDC	-
6	6SL7GT	-52VDC	200VDC	-47VDC	-.2VDC	OV.	.3VDC	6.4VAC	OV.	-
7	6SJ7	OV.	OV.	OV.	-3VDC§	OV.	15VDC	6.4VAC	50VDC	-
8	6V6GT	OV.	OV.	OV.	OV.	-25VDC	OV.	6.4VAC	-35VDC	-
9	6SN7GT	OV.	110VDC	4VDC	OV.	90VDC	4VDC	6.4VAC	OV.	-
10	6V6GT	OV.	OV.	182VDC	190VDC	-60VDC§	OV.	6.4VAC	-48VDC	-
11	6V6GT	OV.	OV.	182VDC	190VDC	-60VDC§	-5.5VDC	6.4VAC	-48VDC	-
12	5Y3GT	OV.	240VDC	OV.	400VAC	OV.	400VAC	OV.	240VDC	-

§TAKEN WITH VACUUM TUBE VOLTMETER.

# RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Cap
1	6SK7	0Ω	.1Ω	470Ω	1 Meg.	470Ω	13KΩ	0Ω	30KΩ	-
2	6K8	0Ω	0Ω	32KΩ	50KΩ	47KΩ	0Ω	.1Ω	240Ω	1.4Ω
3	6J5	0Ω	0Ω	80KΩ	80KΩ	47KΩ	INF.	.1Ω	0Ω	-
4	6K7	0Ω	0Ω	32KΩ	13KΩ	1.5KΩ	0Ω	.1Ω	1.5KΩ	520KΩ
5	6SK7	0Ω	0Ω	1KΩ	1 Meg.	1KΩ	13KΩ	.1Ω	31KΩ	-
6	6SL7GT	3KΩ	30KΩ	30KΩ	47KΩ	0Ω	100KΩ	.1Ω	0Ω	-
7	6SJ7	0Ω	0Ω	0Ω	47KΩ	.2Ω	85KΩ	.1Ω	110KΩ	-
8	6V6GT	0Ω	0Ω	15KΩ	0Ω	1.2 Meg.	15KΩ	.1Ω	2.7KΩ	-
9	6SN7GT	500KΩ	80KΩ	1KΩ	470KΩ	80KΩ	1KΩ	.1Ω	0Ω	-
10	6V6GT	0Ω	0Ω	30KΩ	30KΩ	480KΩ	INF.	.1Ω	2.9KΩ	-
11	6V6GT	0Ω	0Ω	30KΩ	30KΩ	480KΩ	250KΩ	.1Ω	2.9KΩ	-
12	5Y3GT	INF.	30KΩ	INF.	3KΩ	INF.	3KΩ	INF.	30KΩ	-

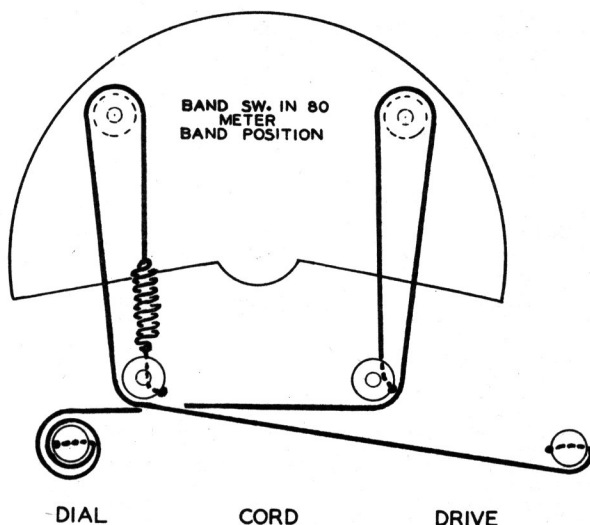
LIMITER CONTROL ON FULL, RF GAIN ON FULL, B+ ON, AF GAIN ON FULL, SELECTIVITY AT #5, TONE CONTROL AT LOW.

TUBES 10, 11 & 12, VOLTAGE AND RESISTANCE READINGS TAKEN IN 10 METER BAND.  
\*AVC-MVC-CWO SWITCH IN CWO POSITION.

TUBES 1 through 9, VOLTAGE AND RESISTANCE READINGS TAKEN IN BAND E.

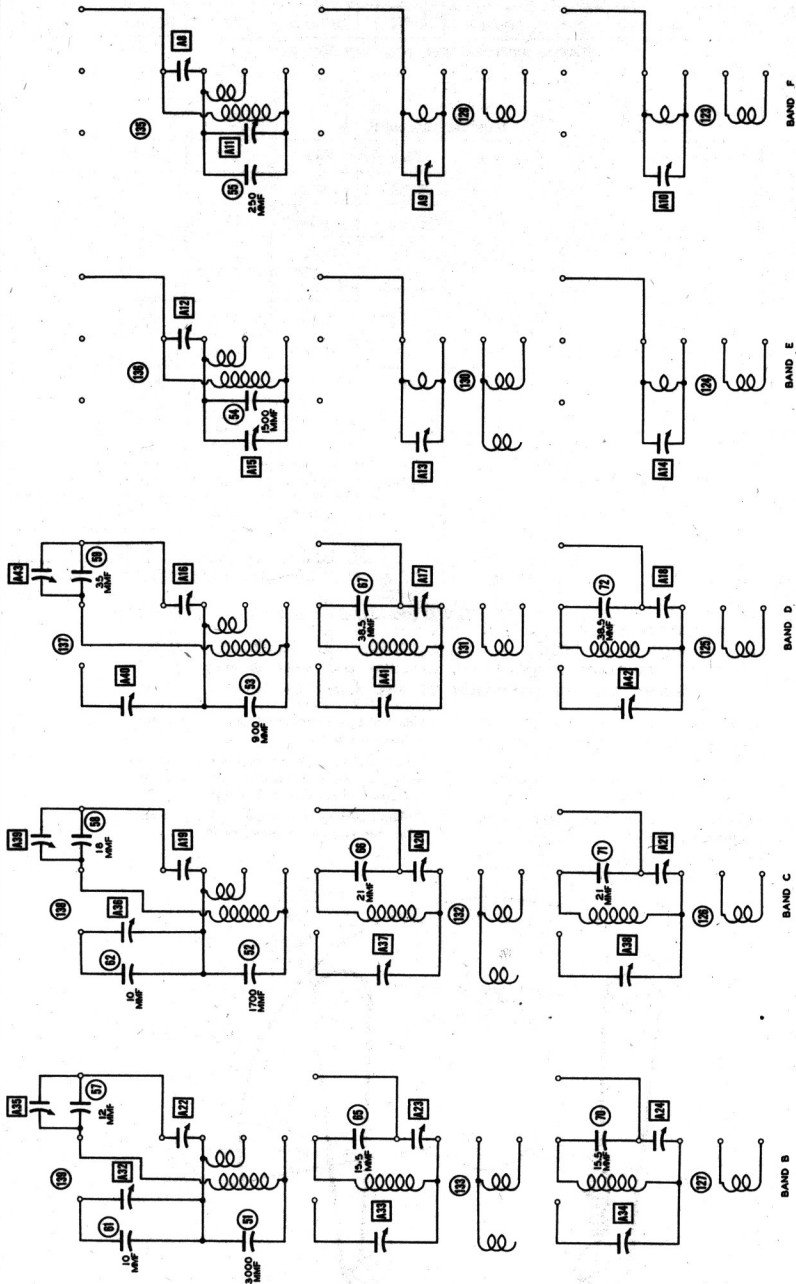
RESISTANCE READINGS IN THE B+ CIRCUITS MAY VARY WIDELY  
ACCORDING TO THE CONDITION OF THE FILTER CAPACITORS

- DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms.
- Socket connections are shown as bottom views.
- Measured values are from socket pin to common negative.
- Line voltage maintained at 117 volts for voltage readings.
- Nominal tolerance on component values makes possible a variation of  $\pm 15\%$  in voltage and resistance readings.
- Volume control at maximum, no signal applied for voltage measurements.



# STAGE GAIN MEASUREMENTS

ANTENNA TO RF GRID	14X	600KC
RF GRID TO CONV. GRID	1.5X	600KC
CONVERSION GAIN	25X	IN 600KC OUT 455KC $\pm 2\%$
1st IF TRANSFORMER	.1X	455KC $\pm 2\%$
1st IF TUBE	100X	455KC $\pm 2\%$
2nd IF TRANSFORMER	.6X	455KC $\pm 2\%$
2nd IF TUBE	45X	455KC $\pm 2\%$
3rd IF TRANSFORMER	.3X	455KC $\pm 2\%$
AUDIO	30X	400 $\sim$
OUTPUT	20X	400 $\sim$



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The stage gain measured values listed above approximate values for an average operative stage, rather than an absolute value. It should be borne in mind that it is possible to introduce so many variables into the measurement operation, such as, type of equipment used for measuring, handling and placement of probes, the accuracy of alignment, etc., that an absolute reading is impractical. AVC is made inoperative by connecting negative (-) 3 volts to the AVC line.

# ALIGNMENT INSTRUCTIONS - READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

RMA Dummy consists of 200 MFDD cap. In series with 20 microhenry choke with choke shunted by 400 MFDD cap. In series with 400Ω carbon resistor.  
 Use 400Ω amp. modulated signal in all Steps of RF Alignment.  
 In Steps 4, 7, 10, 12, 14 and 16 it is necessary for correct alignment that the oscillator work above the incoming signal. To check this tune signal generator 910KC above the dial reading of receiver. If image signal is not heard, retune signal generator to original frequency and open oscillator trimmer to next peak. Adjust for maximum output and recheck for image.  
 RF Gain control and AF Gain control should be at maximum (setting at 10) and output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for all adjustments.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1 Direct	High side to grid cap. 6K8. Low side to chassis.	Tune for maximum output between 453 & 457KC (unmodulated signal)	F	Tuning cap. fully open.	Across voice coil	A1, A2, A3, A4, A5.	Limiter control should be set at "0" power. supply switch to "ON". control switch to "ON". RF gain control to "10". AF gain control to "10". selectivity control to "5". phasing control to "0". tune control to "0". Adjust CW osc. for Beat note about 400 C. After sig. gen. is tuned to maximum output, adjust A1, A2, A3, A4 & A5 for maximum output. Use minimum signal input in order to avoid overloading.
2 Direct	"	See Remarks.	"	"	"	A6	Set selectivity switch to "1". Detune signal gen. 3 or 4 KC. Adjust A6 for maximum output. Retune sig. gen. for maximum output. (Setting of Step 1).
3 Direct	"	"	"	"	"	A7	Set selectivity switch to "Off". Tune for maximum output and adjust A7 for maximum output. Turn phasing control to 0, selectivity switch to "5" and tune sig. gen. for maximum output. Note meter reading. Turn selectivity switch to "Off". Meter reading should decrease slightly. If an increase is noted Steps 1, 2 & 3 should be repeated as this is an indication of improper IF adjustment.
4 RMA Dummy	High side to ext. ant. post. Low side to chassis.	1.0MC (400Ω amp. mod.)	"	1.0MC	"	A8	Set control switch "MVC" to selectivity switch to "Off". Adjust A8 for maximum output. Check for image per prealignment instructions.
5 "	"	"	"	Tune for maximum output.	"	A9, A10	Adjust for maximum output
6 "	"	500KC	"	500KC	"	A11	Adjust for maximum output. Repeat Steps 4, 5 & 6 until no further improvement can be made.
7 "	"	2.0MC	E	2.0MC	"	A12	Adjust for maximum output. Check for image per prealignment instructions.
8 "	"	"	"	Tune for maximum output.	"	A13, A14	Adjust for maximum output
9 "	"	1.0MC	"	1.0MC	"	A15	Adjust for maximum output. Repeat Steps 7, 8 & 9 until no further improvement can be made.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	BAND SWITCH POS.	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
10 "	"	4.0MC	D	4.0MC	"	A16	Adjust for maximum output. Check for image per prealignment instructions.
11 "	"	"	"	Tune for maximum output.	"	A17, A18	Adjust for maximum output
12 "	"	7.2MC	C	7.2MC	"	A19	Adjust for maximum output. Check for image per prealignment notes.
13 "	"	"	"	Tune for maximum output.	"	A20, A21	Rock tuning cap. and adjust for maximum output.
14 "	"	14.0MC	B	14.0MC	"	A22	Adjust for maximum output. Check for image per prealignment notes.
15 "	"	"	"	Tune for maximum output.	"	A23, A24	Rock tuning cap. and adjust for maximum output.
16 "	"	30.0MC	A	30.0MC	"	A25	Adjust for maximum output. Check for image per prealignment notes.
17 "	"	"	"	Tune for maximum output.	"	A26, A27	Rock tuning cap. and adjust for maximum output.
18 "	"	30.0MC	"	30.0MC	"	A28	Adjust for maximum output. Check for image per prealignment notes.
19 "	"	"	"	Tune for maximum output.	"	A29, A30	Rock tuning cap. and adjust for maximum output.
20 "	"	27.0MC	"	27.0MC	"	A31	Adjust for maximum output. Repeat Steps 19, 20 & 21 until no further improvement can be made.
21 "	"	14.4MC	"	14.4MC	"	A32	Adjust for maximum output. Check for image per prealignment notes.
22 "	"	14.4MC	"	Tune for maximum output.	"	A33, A34	Rock tuning cap. and adjust for maximum output.
23 "	"	14.0MC	"	14.0MC	"	A35	Adjust for maximum output. Repeat Steps 21, 22 & 23 until no further improvement can be made.
24 "	"	7.3MC	"	7.3MC	"	A36	Adjust for maximum output. Check for image per prealignment notes.
25 "	"	7.3MC	"	Tune for maximum output.	"	A37, A38	Rock tuning cap. and adjust for maximum output.
26 "	"	7.0MC	"	7.0MC	"	A39	Adjust for maximum output. Repeat Steps 24, 25 & 26 until no further improvement can be made.
27 "	"	4.0MC	"	4.0MC	"	A40	Adjust for maximum output. Check for image per prealignment notes.
28 "	"	"	"	Tune for maximum output.	"	A41, A42	Rock tuning cap. and adjust for maximum output.
29 "	"	3.5MC	"	3.5MC	"	A43	Adjust for maximum output. Repeat Steps 27, 28 & 29 until no further improvement can be made.